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**IN THE CLAIMS:**

Please amend the claims in accordance with the following listing of claims:

1. (Previously Presented) A method of providing location-based services for a call in a packet switched wireless communications network having at least one user equipment, the method comprising the steps of:

    sending a first request to setup a communication channel from the user equipment to a first network element, said first request having an indication that the communication channel will be used for transferring a call which requires location-based services;

    receiving the first request in a first network element; and

    selecting a second network element in accordance with said indication,

    wherein traffic on said communication channel is filtered according to filtering information set by said first network element or said second network element.

2. (Previously Presented) A method as recited in claim 1, further comprising the steps of:

    determining an identity of an entity in said second network element; and

    forwarding said identity to the user equipment.

3. (Previously Presented) The method as recited in claim 2, further comprising the steps of:

    returning an accept message from said first network element to said user equipment, said accept message acknowledging said first request; and

    providing an address of the entity to the user equipment.

4. (Original) The method as recited in claim 2 or 3, further comprising the step of transferring said call to said entity.

5. (Cancelled)

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6. (Previously Presented) The method recited in claim 1, wherein said traffic on said communication channel comprises data traffic.

7. (Previously Presented) The method recited in claim 14, wherein the first network element sends a second request to start location measuring to a location calculating entity when receiving said first request from said user equipment.

8. (Previously Presented) The method recited in claim 7, wherein the location calculating entity sends the measured location information to the first network element which forwards it further to a GMLC.

9. (Previously Presented) The method recited in claim 24, wherein said second network element sends said first request to setup said communication channel to a third network element.

10. (Previously Presented) The method recited in claim 9, wherein said third network element gets a traffic flow template (TFT) as filtering information in response to said first request to setup said communication channel.

11. (Previously Presented) The method recited in claim 1, wherein said second network element is a Gateway GPRS Support Node (GGSN).

12. (Previously Presented) The method recited in claim 1, wherein said first network element is a Serving GPRS Support Node (SGSN).

13. (Previously Presented) The method recited in claim 4, wherein said second network element sets a traffic flow template (TFT) as filtering information in response to said first request to setup said communication channel.

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14. (Previously Presented) The method recited in claim 4, wherein a parameter in said first request is used to indicate that said communication channel will be used for transferring an emergency call.

15. (Previously Presented) The method recited in claim 14, wherein said parameter in said first request is the Access Point Name (APN).

16. (Previously Presented) The method recited in claim 1, wherein the first request is one of an Activate PDP Context Request, an Activate Secondary PDP Request, an Activate AA PDP Context Request, or an Activate Emergency PDP Context Request.

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Previously Presented) The method recited in claim 4, wherein said user equipment sends location information to said entity.

21. (Original) The method of claim 20, wherein said location information is Service Area Identification (SAI), Routing Area Identity (RAI), Cell-ID, coordinate information or any combination of these.

22. (Previously Presented) The method recited in claim 20 wherein said entity comprises an entity handling emergency calls.

23. (Previously Presented) The method recited in claim 22 wherein said entity handling said emergency calls may request location information from the GMLC.

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24. (Previously Presented) The method recited in claim 7 wherein said location calculating entity is a Radio Network Controller (RNC).

25. (Cancelled)

26. (Previously Presented) The method recited in claim 2, wherein said entity comprises a Call State Control Function (CSCF).

27. (Previously Presented) A packet switched wireless communication network comprising:

at least one user equipment;

a first network element, said first network element receiving a first request to setup a communication channel sent from said at least one user equipment, said first request having an indication that the communication channel will be used for transferring a call requiring location-based services; and

a second network element, said second network element being selected in accordance with said indication;

wherein traffic on said communication channel is filtered according to filtering information set by said first network element or said second network element.

28. (Previously Presented) The network recited in claim 27, wherein said first network element is a Serving GPRS Support Node (SGSN).

29. (Previously Presented) A network element in a packet switched wireless communication network, said network element configured to carry out a method comprising the steps of:

receiving a request to setup a communication channel from a user equipment, said request having an indication that the communication channel will be used for transferring a call which requires location-based services; and

selecting another network element in accordance with said indication,

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wherein traffic on said is filtered according to filtering information set by said network element or said another network element.

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Previously Presented) A method of providing location-based services for a call from a first network element (UE) in a packet switched wireless communications network, the method comprising the steps of:

providing location information for the said first network element (UE) from a second network element in a radio access network (RAN); and

sending a first a request to setup a call from the said first network element (UE) to a third network element (CSCF) , said request including the said location information for the first network element(UE).

34. (Previously Presented) A method according to claim 33, wherein the first network element sends a second request to activate a communication connection (PDP Context) to a fourth network element (SGSN) in the radio access network, the request including an indication that the communication connection is for emergency call.

35. (Previously Presented) A method according to claim 33, wherein the location information is provided in a RRC message.

36. (Previously Presented) A method according to claim 33, wherein the location information is broadcasted to the first network element (UE).

37. (Previously Presented) A method according to claim 33, wherein the

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location information is forwarded to a fourth network element (SGSN) from the second network element in the radio access network (RAN), the fourth network element (SGSN) sending the location information in an acceptance message to the second request to activate the communication connection (PDP Context) for the first network element (UE) before said request to set up a call.

38. (Previously Presented) A method according to claim 34, wherein the location information for the first network element is relayed to a GMLC and further relayed to an entity handling emergency calls.

39. (Previously Presented) A method according to claim 34, wherein the communication connection is a PDP context and the acceptance message is the Accept PDP Context Activation message.

40. (Previously Presented) A method according to claim 33, wherein the location information is provided to the first network element as a part of a positioning method.

41. (Previously Presented) A method according to claim 33, comprising a further step of selecting an entity (PSAP) handling emergency calls in the packet switched network based at least in part, on the said location information included in the said request.

42. (Previously Presented) A method according to claim 33, wherein the call is an emergency call.

43. (Previously Presented) A method according to claim 33, wherein the fourth network element (SGSN) allocates a temporary PS Domain Identifier for the call.

44. (Previously Presented) A method according to claim 43, wherein the fourth network element (SGSN) sends the said temporary PS Domain identifier to an entity maintaining location information (GLMC).

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45. (Previously Presented) A method according to claim 43 or 44, wherein the said temporary PS Domain Identifier is sent from the fourth network element (SGSN) to the first network element (UE), from the first network element (UE) to the third network element (CSCF) and from the third network element (GSCF) to the entity handling emergency calls (EC).

46. (Previously Presented) A method according to claim 44, wherein the temporary PS Domain identifier is used to identify an emergency call, when an entity handling emergency calls (EC) requests location information from an entity maintaining location information (GLMC).

47. (Previously Presented) The method according to claim 33, wherein said third network element is a call state control function (CSCF).

48. (Previously Presented) The method recited in claim 42, further comprising the step of returning an accept message in response to a request for an emergency call from the fourth network element, said accept message acknowledging said request and providing the address of said third network element.

49. (Previously Presented) The method recited in claim 41, further comprising the step of transferring said emergency call to said selected entity.

50. (Previously Presented) The method recited in claim 33, wherein the fourth network element (SGSN) indicates to the radio access network to start a positioning method in order to get a location estimate in response to receiving said second request from said first network element (UE).

51. (Previously Presented) The method recited in claim 37, wherein said second network element requests the location information from the radio access network corresponding to the first network element in response to receiving said request for an emergency

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call from said first network element.

52. (Previously Presented) The method recited in claim 50, wherein the location estimate obtained by said positioning method is provided to a Gateway Mobile Location Centre (GMLC).

53. (Previously Presented) The method recited in claim 51, wherein said selected entity handling emergency calls obtains said location estimate from said Gateway Mobile Location Centre (GMLC).

54. (Cancelled)

55. (Previously Presented) The method recited in claim 53, wherein the call is identified using an assigned phone number when said selected entity handling emergency calls (PSAP) obtains said location estimate from said Gateway Mobile Location Center (GMLC).

56. (Previously Presented) The method recited in claim 50, wherein the positioning method is performed in the first network element (UE).

57. (Previously Presented) The method recited in claim 33, wherein the first network element (UE) requests that a positioning method be started at the same time that it sends the call setup request, and wherein the first network element is a user equipment (UE, MS), said location information being Service Area Identification (SAI), Routing Area Identity (RAI), Cell ID, coordinate information or any combination of these.

58. (Cancelled)

59. (Cancelled)

60. (Previously Presented) The method according to claim 33, wherein the said



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location information is Service Area Identification (SAI), Routing Area Identity (RAI), Cell-ID, coordinate information or any combination of these.

61. (Previously Presented) A packet switched wireless communication network, comprising:

- a user equipment (UE);
- a radio access network (RAN); and
- a first network element in the radio access network, said first network element providing location information for said user equipment; and
- a second network element in the packet switched network, said second network element receiving a request from the user equipment to set up a call to said first network element, the request including said location information for the user equipment.

62. (Previously Presented) A packet switched wireless communication network according to claim 61, wherein said second network element is a call state control function (CSCF) or a Public Safety Answering Point (PSAP).

63. (Previously Presented) A packet switched wireless communication network according to claim 62, wherein said first network element receives said Serving Area ID and forwards said Service Area ID to said the user equipment.

64. (Previously Presented) A packet switched wireless communication network according to claim 63, further comprising a call control entity receiving said Service Area ID in an emergency call setup request from the user equipment.

65. (Previously Presented) A packet switched wireless communication network according to claim 64, wherein said call control entity has a database identifying a plurality of Public Safety Answering Points (PSAPs) and corresponding said plurality of Public Safety Answering Point with Service Area IDs.

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66. (Previously Presented) A packet switched wireless communication network according to claim 64, wherein said call control entity selects a Public Safety Answering Point based, at least in part, on said Service Area ID.

67. (Currently Amended) A user equipment (UE) in a packet switched wireless communications network, the user equipment (UE) adapted to carry a method comprising:  
 sending a first request to setup a call to a first network element in the packet switched wireless communication, said request including a request for location information of the user equipment (UE); and  
 receiving location information obtained by a second network element in the radio access network.